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1. Vodeci projektant Preduzeca "Projektant", Skopje.

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1. Stalinskiy nauchno-issledovatel'skiy institut travmatologii i ortopadii (dir. - kand.med.nauk T.A.Revenko).
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no.4:70-72 162. (MIRA 15:5)

1. Donetskiy nauchno-issledovatel'skiy institut travnatologii i ortopedii.

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SO: Vechernaya Moskva January-December 1952

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1. Institut fiziologii rasteniy im. K.A.Timiryazeva Akademii nauk SSSR.

(Hybridization, Vegetable) (Cherry)

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TALEYSNIK, Ye.D.

Structural characteristics of cover tissues in some early-blossoming Far Fastern plants with reference to their resistance to sunburns.

Dokl. AN SSSR 134 no.3:721-723 S '60. (MIRA 13:9)

l. Gorno-tayezhnaya stantsiya im. V.L. Komarova Dal¹nevostochnogo filila Sibirskogo otdeleniya Akademii nauk SSSR. Predstavleno akademikom A.L. Kursanovym.

(Maritime Territory--Plants, Effect of heat on)
(Plant cells and tissues)

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TALEYSNIK, Ye.

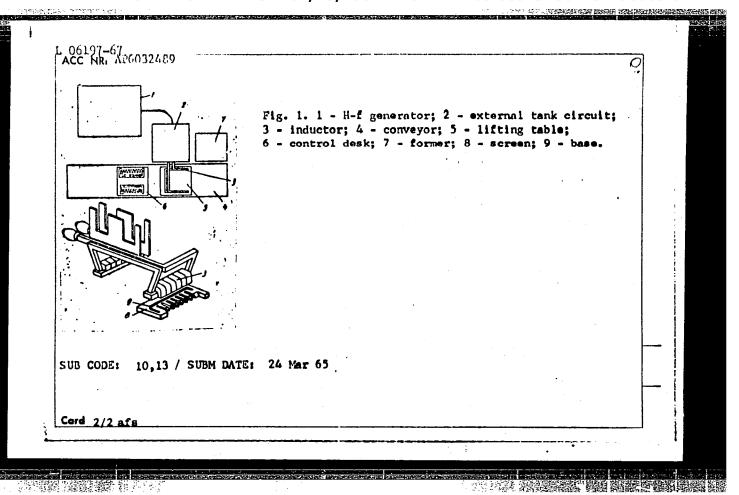
Type diversity in the Sakhalin cherry. Bot.zhur. 46 no.6:869-872 Je '61. (MIRA 14:6)

l. Gornotayezhnaya stantiya imeni V.L.Komarova Dal'nevostochnogo filiala AN SSSR, g. Ussuriysk.

(Cherry)

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SOURCE: Izobreteniya, promy	yshlennyye obraztsy, tovarnyye znaki, no. 17, 1966, 30
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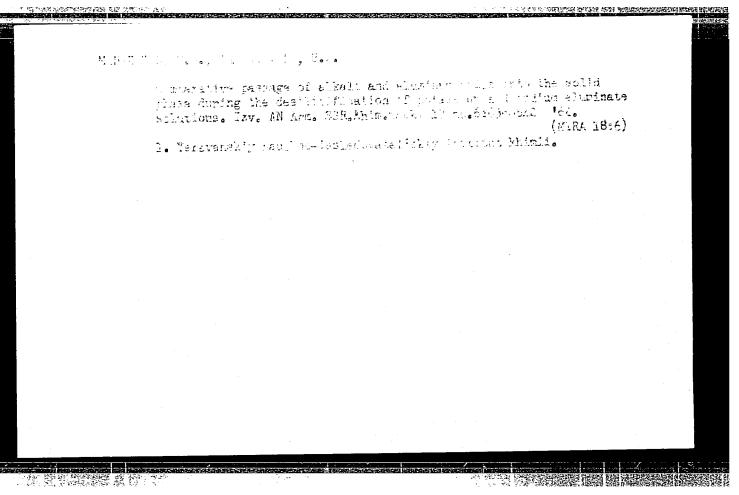
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SC: Sum. No. 670, 29 Sep 55-Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

Periodical: Satur MASTA & F MANG MA 1983 Vol. 14, no. 1, Jan. 1959

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Monthly Dist of Bet European Accessions (MEAI) 10, Vol. 3, No. 5, No. 1759, Unclass.



MANVELYAN, M.C.; KHANAMIRYAN, A.A.; BAKHCHISARAYTSEVA, S.A.;
TALIASHVILI, B.A.; MKRTCHYAN, N.T.

Desiliconizing pure potassium aluminate solutions.
TSvet. met. 35 no.7:45-51 J1 '62. (MIRA 15:11)

(Potassium aluminate)

MANVELYAN, M.G.; KHANAMIRYAN, A.A.; MKRTCHYAN, N.T.; BAKHCHISARAYTSEVA, S.A.; TALIASHVILI, B.A.

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Desiliconization of pure potassium aluminate solutions in presence of chemical additives. TSvet. met. 35 no.11:66-74 N '62. (MIRA 15:11)

(Potassium aluminate) (Silicon)

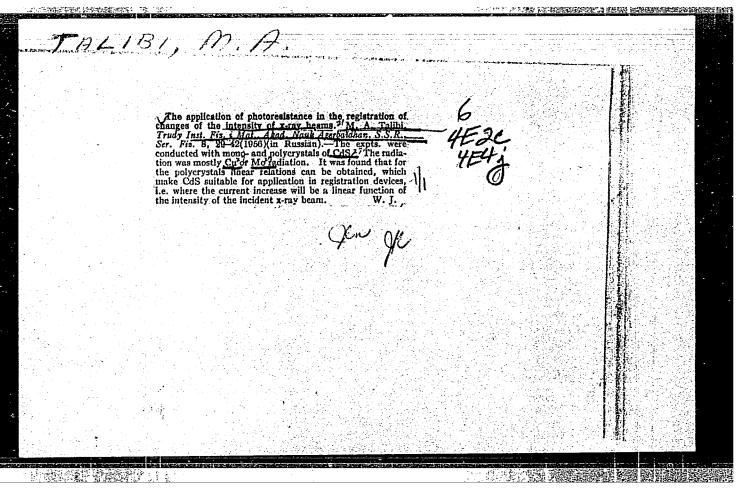
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MANVELYAN, M.G.; KHANAMIRYAN, A.A.; TALIASHVILI, B.A.; NIKOGOSYAN, B.V. OLOBIKYAN, L.G.; STEPANYAN, M.G.

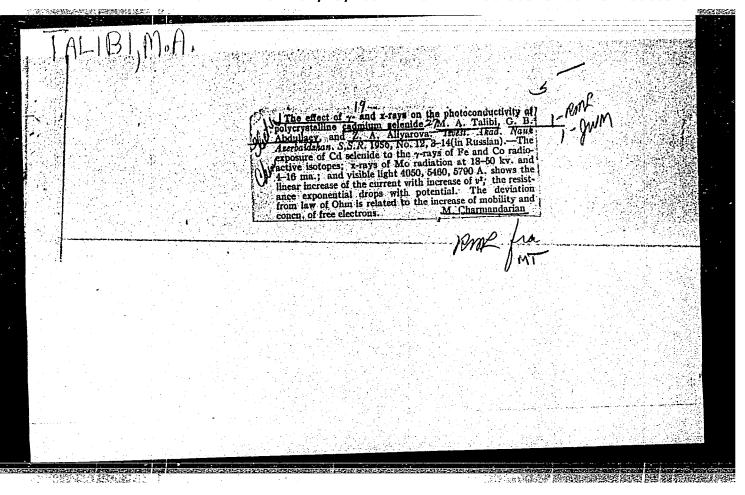
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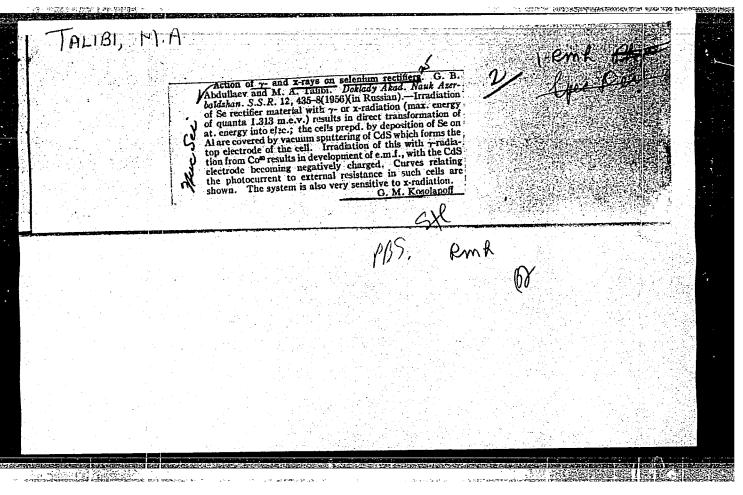
Izv.AN Arm.SSR.Khim.nauki 17 no. 3:283-289 '64. (MIRA 17:7)

1. Institut khimii Gosudarstvennogo komiteta tsvetnykh i chernykh metallov pri Gosplane SSSR.



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Translation from: Referationry shurnal, Metallergiya, 1959, Nr 4, p 156 (USSF)

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AUTHORS

Talibi, M.A.

TITLE:

Experimental Check-Up on the Applicability of Formulae for Valve

Photo-emf to CdS - Se and CdSe - Se Systems 15

FERIODICAL:

Izv. AS Azerb. SSR Ser. fiz-tekhn. 1. khim. n., 1958, Nr 4, pp 31 - 41

(Azerb, résumé)

AESTRACT.

The author measured photo-smf and short-circuit photosurrent $I_{\mbox{\footnotesize ph}}$ for CdS - Se and CdSe - Se rectifier systems; the barrier layer was illuminated by \(\gamma\) -radiation, light and X-ray radiation. Investigations were carried out into conventional systems with artificial barrier layer and into back plate systems. Experimental data were used to check-up the applicability of the formula on the correlation between photo-emf, short-circuit photo-current I_{ph} and saturation current I (in p-n-transition under valve element conditions): $\gamma = kT/e$ in $(I_{ph}/I_0 + 1)$; the formula was derived on the basis of the diode theory. Theoretical and experimental kT/e values are compared. Most satisfactory agreement

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of such data was observed in the natrow range of back voltage of 4-50 mv,

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Experimental Check-Up on the Applicability of Formulae for Valve Photo-emf to CdS - Se and CdSe - Se Systems

corresponding to the saturation current. It was thus established that the formula for the valve photo-emf can be used within a limited range. It is also supposed that the leffective charge of charge carriers in the investigated systems is equal to the free photo-electron charge, at least within the range of application of the valve-photo-emf theory. This statement is also justified in the case of equal back-voltage values for any wavelengths and for any radiation intensity, exciting the valve photo-emf.

A.A.

Card 2/2

子科文学科学的第次分别

BAKIROV, M.Ya.; TALIBI, M.A.; ABDULLAYEV, G.B.

Effect of the electroforming, thermo-and electrochemical processing on physical processes occurring in selenium photoelectric cells [in Azerbaijani with summary in Russian]. Izv. AN Azerb. SSR. Ser.fiz.-tekh. i khim.nauk no.6:43-53 '58. (MIRA 12:2)

(Photoelectric cells) (Selenium) (Electrochemistry)

82143 sov/81-59-6-18324

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 6, p 35 (USSR)

24 7700 AUTHOR:

Talibi, M.

TITLE;

The Action of Gamma_and X_Rays on the Electrical Properties of

Cadmium Sulfide and Selenide

Tr. In-ta fiz.i matem. AS AzerbSSR, 1958, Vol 9, pp 10-19 (Azer-FERIODICAL:

baydzhanian; Russian summary)

The results are cited of an investigation of the action of γ -ABSTRACT:

radiations of radioactive Co and the X-ray radiation of a tube with Mo-anticathode on the electric conductivity of CdS and CdSe. The volt-ampere, lux-ampere and other characteristics were studied and also the inertia of the electric conductivity of the studied objects under the action of X_- and γ -rays. The results of the work prove that the effect of the radiations on the electric conductivity of semiconductors in the case of high-energy quanta as well as visible light is determined mainly not by the character of the ionization process proper, but by the behavior of the charge carriers liber-

ated in the substance as a result of internal ionization.

Card 1/1

R. A.

TALIBI, M.A.: ABDULLAYEV, G.B.

Determining the electromotive force and resistance of selenium rectifier cells subjected to radiation. Dokl. AN Azerb. SSR 16 no.1:3-7 58. (MIRA 11:2)

1. Institut fiziki i mutematiki AN Azerbaydzhanskoy SSR. (Selenium cells) (Photoelectricity)

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TALIBI, M.A.; ABDULLAYEV, G.B.

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Calculating the efficiency coefficient and quantum yield of barrierlayer photocells produced upron the incidence of penetrating radiations. Dokl. AN Azerb. SSR 14 no.3:201-205 58. (MIRA 11:4)

1. Institut fiziki i matematiki AN AzerSSR.

(Photoelectric cells) (Gamma rays) (X rays)

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TALIBI, M.A.; ABDULLAYEV, G.B.

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Applicability of the theory of the barrier-layer photoelectromotive force to selenium cells. Dokl. AN Azerb. SSR 14 no.6:425-428 158. (MIRA 11:7)

1. Institut fiziki i matematiki AN AzerSSR. (Selenium cells)

s/058/62/000/008/089/13⁴ A062/A101

AUTHORS:

Talibi, M. A., Abdullayev, G. B.

TITLE:

Investigation of the effect of γ -rays, X-rays and neutrons on the electric properties of CdS-Se and CdSe-Se rectifying systems (Theses)

PERIODICAL: Referativnyy zhurnal, Fizika, no. 8, 1962, 31, abstract 8E227 (In collection: "Fotoelektr. i optich. yavleniya v poluprovodnikakh",

Kiyev, AN USSR, 1959, 401)

Results are given of investigations in a study of the effect of light, TEXT: /- and X-rays on certain electric properties of CdS-Se, CdSe-Se semiconductor rectifying systems and of their components. It has been shown that the p-n junctions of the given system are sensitive to X- and γ -rays. The dark conductance and the photoconductivity of CdSe polycrystals show a linear variation with the increase of the voltage applied to the sample, independently of the kind of the operating irradiation. Identical characteristics were obtained (volts vs amperes, lux vs amperes, etc) independently of the kind of the irradiation operating on the CdS, CdSe, CdS-Se and CdSe-Se samples. The possibility was ascertained of applying

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S/058/62/000/008/089/134

Investigation of the effect of...

MOM-3 with a CdS- and CdSe-crystal for recording the prays and the X-rays.

O. Shustova

[Abstracter's note: Complete translation]

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devices. The apparent nowled by desire, we saven the students in universities and institutes of higher bounded training specializing in the physics and technical application of semi-conductors.

COVERAGE: The collection contains reports and information bulletins (the latter are indicated by interfectly read at the First All-Union Conference on Optical and Factoricatic Phenomena in Semiconductors. A wide scope of problems in semiconductor physics and technology are considered: photoconductivity, photoelectromotive forces, optical properties, photoelectric cells and photocosistors, the actions of hard and corpuscular radiations, the properties of thin films and complex semiconductor systems, etc. The materials were propared for publication by E. I. Rashooy, O. V. Snitke, K. B. Tolpygo, A. F. Lubchenko, and M. K. Sheynkman. References and discussion follow each article.

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Photoelectric and Optical Phenomena (Cont.) SOV/3140

Talibi, M. A., and G. V. Abdullayev. Investigation of the Effect of Y-Rays, X-Rays and Neutrons on the Electrical Properties of CdS-Se and CdSe-Se Rectifier Systems (Theses)

401.

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Card 16/16

ABDULLAYEV, G.B.; BAKIROV, M.Ya.; TALIBI, M.A.

Effect of the area and material used in the upper electrode on the photoelectric properties of selentum pnotoelectric cells [in the photoelectric properties of selentum protoelectric cells SSR. Ser. fiz.-Azobaijani with summary in Russian]. Izv. AN Azerb. SSR. Ser. fiz.-tekh. i khim. nauk no.1:7-10 '59.

(Photoelectric cells)

(Photoelectric cells)

RAKIROV, M.Ya.; ABDULLAYEV, G.B.; NASIROV, Ya.N.; TALIBI, M.A.

Studying the effect of certain factors on the characteristics of selenium photocells. Izv. AN Azerb. SSR. Ser. fiz.-mat. i tekh. nauk no.5:65-74 159.

(Selenium cells)

BAKIROV, M.Ya.; ABDULLAYEV, G.B.; MASIROV, Ya.N.; TALIBI, M.A.

Effect of the degree of crystallization of selenium on the characteristics of photoelectric cells. Izv. AR Azerb. SSR Ser. characteristics of photoelectric cells. Izv. AR Azerb. SSR Ser. (MIRA 13:3)

fiz.-mat. 1 tekh. nauk no.5:93-99 '59. (MIRA 13:3)

(Selenium cells)

8 (0)

SOV/112-59-1-139

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 1, p 14 (USSR)

AUTHOR: Talibi, M. A.

TITLE: Use of Photoresistors in Recording Intensity Variations of X-Rays

PERIODICAL: Tr. In-ta fiz. i matem. AS AzerbSSR, 1956, Vol 8, pp 29-43

(Summary in the Azerbaydzhan language)

ABSTRACT: Bibliographic entry.

Card 1/1

L 2730-66 EWT(m) GS UR/0000/62/000/000/0189/0193

AUTHOR: Abdullayev, G. B.; Talibi, M. A.

TITLE: Method of using cadmium sulfide photoresistances in a recording x- and gamma-ray dosimeter 19

SOURCE: Soveshchaniye po probleme Deystviye yadernykh izlucheniy na materialy.

Moscow, 1960. Deystviye yadernykh izlucheniy na materialy (The effect of nuclear radiation on materials); doklady soveshchaniya. Moscow, Izd-vo AN SSSR, 1962, 189-193

TOPIC TAGS: cadmium sulfide, photoresistance, radiation dosimeter, x ray measurement, gamma detector

ABSTRACT: The article describes a possible method of using cadmium sulfide photo-resistances as sensing elements in a recording x- and gamma ray dosimeter including an MOM-3 tube megohmmeter. Single-crystal photoresistances produced by the Institut fiziki AN USSR (Institute of Physics, AN Ukr. SSR) were employed in the experiments. The dosimeter circuit permits a continuous successive recording of the intensities or rates of radiations directed on the working surface of each individual photoresistance. The proposed

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dosinater was tested with a large number of photoresistances on URS-70, GUT-S0-400-1, and RUM-3M units; the dose rate varied from 3 to 2000 roentgen/min. The use of CdS crystals in combination with MOM-3 as the dosimeter presents a number of advantages, since the calibrated resistances of the instrument cover a wide range. This permits measurements over a wide radiation intensity range and the plotting of calibration curves for various photoresistances but the same MOM-3. The recalibration of the scale of MOM-3 from resistance units to dose rate units is discussed in terms of the relationship between the resistance and the intensity of the current passing through an x-ray tube with various anodes (tungsten, molybdenum, iron, copper). Orig. art, has: 4 figures, 1 table, and 2 formulas.

ASSOCIATION: None

SUBMITTED: 18 August 62

ENCL: 00

SUB CODE: NP

NO REF SOV: 907

OTHER: 002

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30420

s/058/61/000/009/042/050 A001/A101

9.4177 (1/14,1/38)

AUTHOR:

Talibi, M.A.

TITLE:

On origination of emf at bombarding p-n transitions in CdS-Se and

CdSe-Se with fast electrons

PERIODICAL:

Referativnyy zhurnal. Fizika, no. 9, 1961, 237, abstract 9E484 ("Izv. AN AzerbSSR. Ser. Fiz.-matem. i tekhn. n.", 1960, no. 4, 79-83,

Azerb. summary)

The p-n transitions CdS-Se and CdSe-Se were bombarded with 40-75 kev electrons. Dosimetric and inverse voltampere characteristics of specimens were investigated at the action of electrons and preliminary illumination with visible light. Within the range of the electron energies employed, the curves of dependence of short-circuit current on accelerating voltage and on the square of accelerating voltage (dosimetric characteristic) do not show any tendency to saturation. Linearlty of dosimetric characteristics of the specimens makes it possible to use them for dosimetry of electrons. The author presents inverse voltampere characteristics of one of the CdS-Se specimens, operating in the photodiode manner,

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30420

On origination of emf ...

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at the action of electrons and at the joint action of electrons and light. The behavior of current carriers originated under the action of electrons, light, and dark current carriers, is the same.

4

V. Patskevich

[Abstracter's note: Complete translation]

Card 2/2

5/081/61/000/022/014/076 B102/B108

AUTHORS:

Manafly, Ye. I., Talibi, M. E.

TITLE:

Some properties of native halenite from the

Azerbaydzhanskaya SSR

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 22, 1961, 89, abstract

22G49 (Izv. AN AzerbSSR. Ser, fiz. matem. i tekhn. n.,

no. 6, 1960, 69-75)

TEXT: Photosensitivity and some optical properties of native halenite samples were investigated. The samples contained Fe, Al, Ag, Mg, Si, Ba, Ca, Cu, So, Zn, and Sr impurities which were detected by spectral analysis. The lattice constant was found to be 5.89 A. [Abstracter's note: Complete translation.]

Card 1/1

31511 s/058/61/000/010/007/100 A001/A101

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AUTHORS:

Talibi, M. A., Yusifov, A. G.

TITLE:

On some specific features of the effect of X- and gamma-rays on

electric resistivity

PERIODICAL: Referativnyy zhurnal. Fizika, no. 10, 1961, 57, abstract 10B171 (Izv. AN AzerbSSR, Ser. fiz. matem. i tekhn. n.", 1960, no. 6,

91-97, Azerb.summary)

The authors investigated sensitivity of CdS to ionizing radiation with the purpose of constructing small-size dosimeters for X- and ? -rays. Variation of dark resistivity in dependence on intensity and wave composition of an operating short-wave resistance served as criterion of sensitivity. 20 specimens having almost equal sizes were investigated. Intensity of a dose was determined by means of an ionization chamber with walls of an air-equivalent material. The results obtained are represented by graphs. The measurements have shown that sensitivities of CdS sensors are different even for equal doses of radiation with different wave composition; therefore, every sensor should be calibrated individually. [Abstracter's note: Complete translation]

Card 1/1

į 3677 3/058/61/000/012/046/083 A058/A101 9,4340 (1003, 1143, 1150) Talibi M. A. Abdullayev. G.

AUTHORS .

Concerning a correlation between the logization-potential activation energy of impurities and the radius of the impurity from in semi-TITLE conductors

Referativnyy zhurnal, Fizika. no. 12. 1961 337 abstrant 13E459 (Dokl, AN AzerbSSR, 1961 v. 17 nc. 2, 97 - 103 Azerb, simunary) PERIODICAL.

The effect of doring Se with Ga, Pb. Ag. Fe and Si on the electric properties of Se and of selenium p-n junctions was investigated. I was demonstrated that the higher the first ionization potential of the impurity (i) and the smaller its atomic radius (r), the lower is the temperature at which impact ionization appears. At constant temperature the lower I and the greater r, the lower is the voltage at which impact ionization appears With decreasing atomic number and impurity concentration, the impurity activation energy ΔE rises (with the exception of Ga). ΔE is inversely proportional to the difference between I and r of Se and those of the impurity. According to the data in the literature the registered correlation extends to a number of impurities in Ge and S: while in

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Concerning a correlation between...

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binary semiconductor compounds of metals with elements of the same group ΔE of the compound is directly proportional to the difference between 1 a 1 to 1 the components. Binary compounds of the selections and sulfides are an exception. They evince reverse proportionality between the same parameter. The correlation holds for a number of ternary semiconductor compounds.

V, Lev

[Abstracter's note | Complete translation]

Card 2/2

S/249/62/018/007/001/001 D256/D308

AUTHORS:

Talibi, M.A. and Abdullayev, G.B.

TITLE:

A method of estimating the width of the forbidden band in some semiconducting 3-component compounds

PERIODICAL:

Akademiya nauk Azerbaydzhan SSR, Doklady, v. 18,

no. 7, 1962, 17-21

TEXT: The binary groups of the 3-component compounds investigated by Goodman (Goodman, C.H.L., Phys. and Chem. of Solids, 6, no. 4, 305, 1958) and obtained by substitution of one of the components by an element belonging to the same group of the periodic table, are considered. Following the previously reported observation by the authors (Abdullayev and Talibi, Trudy Vsesoyuznogo. Goveshchaniya po P-n perckhodam v poluprovodnikakh, Tashkent, 1961, in print), that the difference of the ionization potentials and the atomic radii of the components can be useful for the estimation of the width of the forbidden band, it is shown that a direct correlation exists between the width of the forbidden band and the differ-

Card 1/2

A method of estimating ...

S/249/62/018/007/001/001 D256/D308

ence of the ionization potentials. An attempt is made to estimate the widths of the forbidden bands in some analogue three-component compounds, assuming that the observed correlation does not depend upon the position of the substituted element in the periodic table.

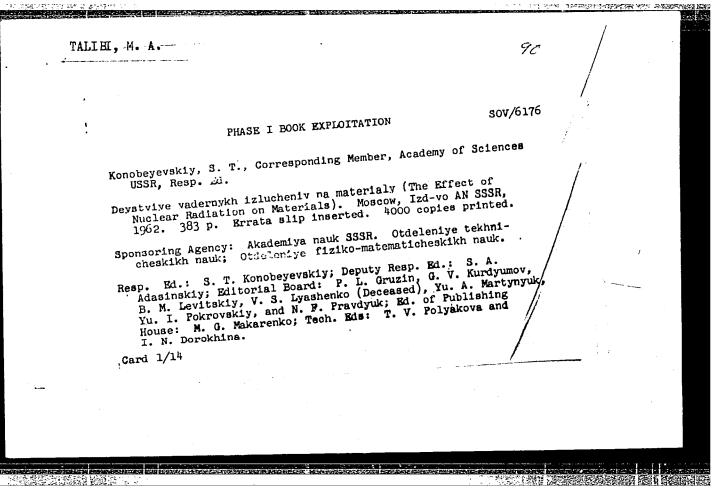
ASSOCIATION:

Institut fiziki (Institute of Physics)

SUBMITTED:

January 12, 1962

Card 2/2



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sov/6176

The Effect of Nuclear Radiation (Cont.)

PURPOSE: This book is intended for personnel concerned with nuclear materials.

COVERAGE: This is a collection of papers presented at the Moscow Conference on the Effect of Nuclear Radiation on Materials, held December 6-10, 1960. The material reflects certain trends in the work being conducted in the Soviet Radiation on Some of the papers are grientific research organization. Some of the papers are certain trends in the work being conducted in the Soviet scientific research orginization. Some of the papers are devoted to the experimental study of the effect of neutron irradiation on reactor materials (steel, ferrous alloys, indication on reactor materials (steel, ferrous alloys, indication, avial, graphite, and nichromes). Others deal with the theory of neutron irradiation effects (physicothemical transformations, relaxation of internal stresses. chemical transformations, relaxation of internal stresses, chemical transformations, relaxation of internal stresses, internal friction) and changes in the structure and properties of various crystals. Special attention is given to ties of various crystals. Special attention is given to the effect of intense Y-radiation on the electrical, magnetic, and optical properties of metals, dielectrics, and semiconductors.

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Pz-4-AT/IJP(C) ACCESSION NR: AT3002973 S/2927/62/000/000/0012/0017

65

AUTHOR: Abdullayev, G. B.; Talibi, M. A.

TITLE: Correlation in semiconductors between the activation energy and the ionization potential and atomic radius [Report at the All-Union Conference on Semiconductor Devices, Tashkent, 2-7 October, 1961]

SOURCE: Elektronno-dy*rochny*ye perekhody* v poluprovodnikakh. Tashkent, Izd-vo AN UzSSR, 1962, 12-17

TOPIC TAGS: selenium rectifier, activation energy, ionization potential, atomic radius

ABSTRACT: Studying the effect of strong field on p-n transition in impurity-type selenium rectifiers is important as it may permit controlling the electrical and thermal characteristics of these rectifiers. The authors investigated reverse current-woltage characteristics of selenium rectifiers containing Ga, Pb, Ag, Fe, and Si as impurities at the liquid-nitrogen temperature. Also the effect of temperature (-80 to +200) on the cutoff current of the above rectifiers was determined. Experimental data is compared with the published data of other researchers, and the following conclusion is drawn: the closer ionization potential

Card 1/2

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ACCESSION NR: AT3002973

and atomic radius of the impurity to those of the semiconductor proper, the higher is the activation energy of the impurity in the semiconductor. Orig. art. has: 2 figures and 6 tables.

ASSOCIATION: Akad. nauk SSSR(Academy of Sciences SSSR); Akad. nauk UzSSR(Academy of Sciences UzSSR); Tashkentskiy gosuniversitet im. V. I. Lenina (<u>Tashkent State University</u>)

SUBMITTED: 00

DATE ACQ: 15May63

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SUB CODE: 00

NO REF SOV: 010

OTHER: 006

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"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001754730009-5

\$/275/63/000/003/012/021 A052/A126

AUTHORS:

Abdullayev, G.B., Manafli, E.I., Talibi, M.A.

TITLE:

On the effect of some impurities on the impact ionization

mechanism in selenium rectifiers

PERIODICAL: Referativnyy zhurnal, Elektronika i yeye primeneniye, no. 3, 1963, 22, abstract 3B137 (Tr. Soveshchaniya po udarn. ionizatsii i tunnel'n. effektu v poluprovodnikakh, 1960. Baku,

AN AzerbSSR, 1962, 83 - 86)

The effect of Ga, Pb, Ag, Fe and Si impurities on the inverse branches of volt-ampere characteristics of selenium valves was investigated in the temperature range from room temperature to -196°C. At low temperatures a "freezing" of thermal oscillations of the lattice takes place. A thermal background weakening makes it possible to investigate more accurately the physical processes conditioned by impurities. It is shown that in the negative temperature range the inverse current temperature dependence changes considerably with the change of the kind of impurity. The rate of inverse current growth with temperature and voltage is determined by the

On the effect	of some impuri	ties	S/275/63/000/ A052/A126		
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ABDULLATEV, G.B.; BAKIROV, M. Tu.; TA) HFT, M.A.; GASTMOV, R.B.

Selenium photoelements with saturation current. Izv. AN

Salenium photoelements with saturation current. Izv. AN

Azerb. SSR.Ser. fiz.-mat. i tekh. nauk no.3:77-83 '63.

(NIRA 16:11)

ABDULLAYEV, G.B.; ALEKPEROVA, Sh.M.; TALIBI, M.A.; BEKIROV, M.Ya.; GASYMOV, R.B.

Saturation currents in selenium p-n junctions. Dokl. AN Azerb. SSR 19 no.1:9-12 '63.

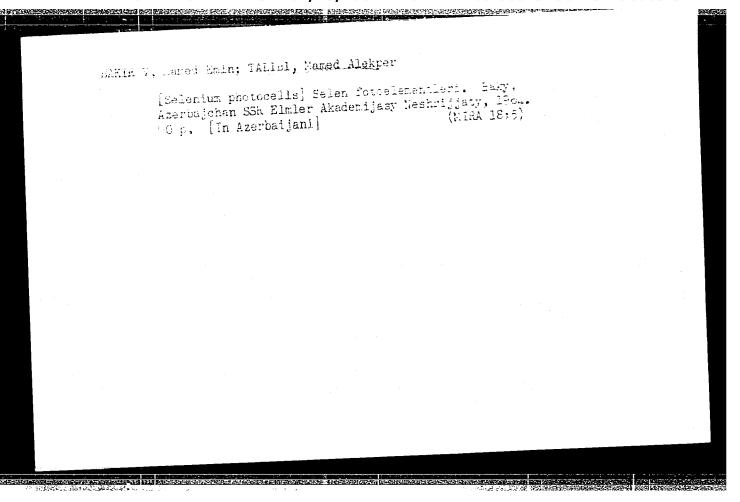
1. Institut fiziki AN AZSSR. (Junction transistors)

ABDULLAYEV, G.B., doktor fiz.- matem. nauk; TALIBI, M.A., kand. fiz.matem. nauk

Conference on the Study of Selenium and Tellurium, held in Baku.

Vest. AN SSSR 33 no.10:113-114 0 '63.

(MIRA 16:11)



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ACC NR: AT6001331 SOURCE CODE: UR/0000/65/000/00037/0041

AUTHOR: Talibi, M. A.; Verdiyeva, T. M.

60 59

ORG: none

R+1

TITLE: The effect of certain factors on the surface of $\frac{Se}{\sqrt{1}}$

SCURCE: AN AzerbSSR. Institut fiziki. Selen, tellur i ikh primeneniye (Selenium, tellurium and their utilization). Baku, Izd-vo AN AzerbSSR, 1965, 37-41

TOPIC TAGS: selenium, surface property, crystal growth, nucleation, illumination, etched crystal, metallographic examination, metal physics, pn transition

ABSTRACT: The effects of crystallization time, illumination and etching on the surfaces of selenium layers (50 to 70µ thick) were studied in an effort to clarify the mechanism underlying the growth of Se crystals. The Se films were obtained by vapor deposition of technical grade Se containing 0.03% Br impurity on aluminum substrates. The substrates were maintained at a constant temperature of 130°C; crystallization time varied from 5 to 60 min under illumination from a red bulb and a neon lamp as well as under zero illumination. The data (presented in the form of micrographs (100x)) illustrate the effects of the above variables on the nature of

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the crystallization. In darkness spherulites of Se crystals were observed after only 15 min, while at longer times the diameters of the spherulites increased according to the following empirical relation:

 $d = 0.36t + d_0$

where d = diameter (mm), t = time of crystallization (min) and d_0 = 0.2·10⁻² (mm). The increase in diameter was due to the increased growth rate which at 10-20 min was estimated to be 246 μ /hr. After 30 min at 130°C, the density of spherulites was 250 mm⁻³. The results obtained for illumination and etching after 10 min of crystallization at 130°C (100x) were similar to the above; that is, the appearance and the dimensions of the spherulites did not change. The etch used was a 50/50 HNO₃/ μ /H₂SO₄. However, when the films were immersed in boiling water (after 10 min preliminary crystallization in the dark), changes in spherulite size and background were noted. These changes were caused by the reaction SeO₂ + μ -0 = μ -SeO₃. The effects of the above surface changes were postulated to have an influence on the pn transition properties, however, further work in this area was planned. The authors express their gratitude to Professor G. B. Abdullayev for his interest in the work and for his discussion of the results. Orig. art. has: 2 figures, 2 formulas.

SUB CODE: 11, 20/ SUBM DATE: 10Mar65/ ORIG REF: 003/ OTH REF: 008

Card 2/2)

"APPROVED FOR RELEASE: 07/13/2001

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temperature coefficient of reverse current was a function of the type of impurities; the smallest change occurred for Si whose ionization potential was closest to Se. the smallest change occurred for Si whose ionization potential was closest to Se. The capacitance decreased with temperature, again the smallest for Si, reaching a The capacitance decreased with temperature, again the smallest for Si, reaching a The capacitance at 125°C for 9v and for 25v--1 $\mu f/cm^2$ at 100°C. The constant value of 1 $\mu f/cm^2$ at 125°C for 9v and for 25v--1 $\mu f/cm^2$ at 100°C. The constant value of 1 $\mu f/cm^2$ at 125°C for 9v and for 25v--1 $\mu f/cm^2$ at 100°C. The constant value of 1 $\mu f/cm^2$ at 125°C for 9v and for 25v--1 $\mu f/cm^2$ at 100°C. The constant value of 1 $\mu f/cm^2$ at 125°C for 9v and for 25v--1 $\mu f/cm^2$ at 100°C. The constant value of 1 $\mu f/cm^2$ at 125°C for 9v and for 25v--1 $\mu f/cm^2$ at 100°C. The constant value of 1 $\mu f/cm^2$ at 125°C for 9v and for 25v--1 $\mu f/cm^2$ at 100°C. The constant value of 1 $\mu f/cm^2$ at 125°C for 9v and for 25v--1 $\mu f/cm^2$ at 100°C. The constant value of 1 $\mu f/cm^2$ at 125°C for 9v and for 25v--1 $\mu f/cm^2$ at 100°C. The constant value of 1 $\mu f/cm^2$ at 125°C for 9v and for 25v--1 $\mu f/cm^2$ at 100°C. The constant value of 1 $\mu f/cm^2$ at 125°C for 9v and for 25v--1 $\mu f/cm^2$ at 100°C. The constant value of 1 $\mu f/cm^2$ at 125°C for 9v and for 25v--1 $\mu f/cm^2$ at 100°C. The constant value of 1 $\mu f/cm^2$ at 125°C for 9v and for 25v--1 $\mu f/cm^2$ at 100°C. The constant value of 1 $\mu f/cm^2$ at 125°C for 9v and for 25v--1 $\mu f/cm^2$ at 100°C. The constant value of 1 $\mu f/cm^2$ at 125°C for 9v and for 25v--1 $\mu f/cm^2$ at 100°C. The constant value of 1 $\mu f/cm^2$ at 125°C for 9v and for 25v--1 $\mu f/cm^2$ at 100°C. The constant value of 1 $\mu f/cm^2$ at 125°C for 9v and for 25v--1 $\mu f/cm^2$ at 100°C. The constant value of 1 $\mu f/cm^2$ at 125°C for 9v and for 25v--1 $\mu f/cm^2$ at 100°C. The constant value of 1 $\mu f/cm^2$ at 125°C for 9v and for 25v--1 $\mu f/cm^2$ at 100°C

decreased with temperature and the lower values at the higher temperatures (above 100°C) were caused by the filling up of deep defects in both Se and CdSe. According to the data, activation at the deeper levels resulted from the joint action of a strong field and temperature. The decrease in reverse current with temperature was the result of a decrease in N. A comparison of this work to other semiconducting systems was made. The formation of SiO, SiO₂ and Si₂O₂ and its effect on deing systems was made. It was found that Si additions to Se raised the specicreases in N was discussed. It was found that Si additions to Se raised the specific resistance by one order. An extensive literature survey of the effects of impurities on the electrical properties of Se-CdSe elements is appended. The authors

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L 17728-66 ACC NR: AT6001333

express their gratitude to Professor <u>G. B. Abdullayev</u> for discussion of the results and valuable advice. Orig. art. has: 7 figures, 1 formula.

OTH REF: 022 ORIG REF: 027/ SUBM DATE: 10Mar65/ 20/ SUB CODE: 11

L 16505-66 EWT(1)/EWT(m)/ETC(f)/EWG(m)/EWP(t) IJP(c) RDW/JD/GS/AT SOURCE CODE: UR/0000/65/000/000/0085/0094 ACC NR: AT6001334 AUTHOR: Abdullayev, G. B.; Bakirov, M. Ya.; Talibi, M. A.; Gasymov, R. B. 8+1 none TITLE: Photoeffect in selenium pn transitions SOURCE: AN AzerbSSR. Institut fiziki. Selen, tellur i ikh primeneniye (Selenium, tellurium and their utilization). Baku, AN AzerbSSR, 1965, 85-94 TOPIC TAGS: selenium, intermetallic compound, impurity conductivity, semicondicting material, spectrum analysis, temperature dependence, diffusion coefficient, metal physics 21, 44, 55 ABSTRACT: Photoelectric properties of selenium photocells containing Cd, Pb, Ga, In, Zn and Hg as contact films were studied. Diffraction analysis of the junctions showed that the selenide intermetallic compound formed in each case; these junctions exhibited n-type conductivity and caused photovoltaic effects due to pn transitions. Spectral characteristics are given for Se with CdSe, InSe and HgSe, showing primary and secondary maxima for relative photocurrent (%), the secondary maximum being dependent on the type of element. Photosensitivity showed a dependence on time, sample Z Card 1/2

L 17729-66 EWT(m)/ETC(f)/EWG(m)/EWP(t) IJP(c) RLW/JD/GS SOURCE CODE: UR/0000/65/000/000/0115/0121 ACC NR: AT6001336

AUTHOR: Abdullayev, G. B.; Manafli, E. I.; Talibi, M. A.

ORG:

none

TITLE: The effect of certain impurities on the capacitance of transitions in Se-CdSe

SOURCE: AN AzerbSSR. Institut fiziki. Selen, tellur i ikh primeneniye (Selenium, tellurium and their utilization). Baku, AN AzerbSSR, 1965, 115-121

TOPIC TAGS: selenium, cadmium selenide, capacitance, impurity conductivity, temperature dependence, selenium compound, oxide, carrier mobility, diffusion transistor, metal physics

ABSTRACT: The changes in capacitance were given as a function of voltage displacement at both 20° and 80°C for Se-CdSe elements made with impurity additions of Ga, Fe, Pb, Ag and Si. The temperature dependence of capacitance was presented for these impurities and for constant voltage displacements of 9, 15 and 25 v. A sharp decrease in the temperature coefficient of capacitance was observed for the higher

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L 17729-66

ACC NR: AT6001336

voltages at about 100°C ; above 100°C it became constant. An exception to this was Ga which made its transition at 125°C . These data were correlated with oxide formation, diffusion effects and ionization potentials. Because the ionization potential of Si was closest to Se it was least effective in raising the capacitance. However, increases in concentration (e. g., 0.0001% to 0.1% Fe) lowered the capacitance. The diffusive capacitance rose sharply with direct voltage at 20°C , whereas at 125°C it did so only for Ga and Fe; the temperature dependence of this effect was given for 0 and 0.3 v. A relation for this capacitance was given as follows: $C_{-} = (eI/2kT)\tau,$

where e is the electron charge, k is Boltzmann's constant, T is absolute temperature, I is direct current and τ is the lifetime of carriers. The dependence of the effective lifetime $\tau_{\rm ef}$ is given as a function of temperature and impurity content.

For Ga and Fe $\tau_{\rm ef}$ the dependence was weak compared to pure Se, Ag and Si and the values of $\tau_{\rm ef}$ were calculated to be 10^{-5} - 10^{-6} sec. Orig. art. has: 10 figures, 1 formula.

SUB CODE: 11, 20/ SUBM DATE: 10Mar65/ ORIG REF: 005/ OTH REF: 007

Card 2/2/5

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L 17730-66 EWT(m)/ETC(f)/EWG(m)/EWP(t) LJP(c) RDW/JD/GS ACC NR: AT6001337 SOURCE CODE: UR/0000/65/000/000/0122/0124

AUTHOR: Talibi, M. A.; Krutenyuk, Ye. G.

ORG: mone

TITLE: The effect of a sodium impurity on certain properties in selenium components

SOURCE: AN AzerbSSR. Institut fiziki. Selen, tellur i ikh primeneniye (Selenium, tellurium and their utilization). Baku, AN AzerbSSR, 1965, 122-124

TOPIC TAGS: pn transition, selenium, cadmium selenide, semiconducting material, sodium, impurity conductivity

ABSTRACT: The effects of sodium impurities on pn transition properties Se-CdSe were studied. A literature review of the effect of sodium on electric and optical properties of selenium was presented; the sodium action decomposes the molecules of selenium and accelerates their crystallization. Experimental data were gathered for samples with up to 0.1 at % Na, the cadmium being deposited first (vapor) onto an aluminum cathode and the selenium with Na as an impurity deposited next. Some samples had 0.005% Cl while others had both 0.005% Cl and 0.1% Na. The components

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2

L 17731-66 EWT(m)/EWP(t) LJP(c) JD/GS ACC NR: AT6001338 SOURCE CODE: UR/0000/65/000/000/0125/0128

AUTHOR: Abdullayev, G. B.; Talibi, M. A.; Mamedov, E. G.

= 7 B+-/

ORG: none

TITLE: The effect of Mn impurities on the rectifying properties of transitions in Se-CdSe_ $^{\prime}$

SOURCE: AN AzerbSSR. Institut fiziki Selen, tellur i ikh primeneniye (Selenium, tellurium and their utilization). Baku, AN AzerbSSR, 1965, 125-128

TOPIC TAGS: selenium, cadmium selenide, temperature dependence, pn transition, manganese, metal physics

ABSTRACT: A study was made of the effects of Mn on trap formation for transitions in Se-CdSe. The Mn had an unfilled 3d shell and two 4s electrons. Static volt-ampere characteristics for one of the samples were given as a function of temperature; a typical Se inversion in the temperature dependence on reverse current was observed. For Se-CdSe junctions without additions and for additions other than Mn the saturation of reverse current occurred below 130°C; with Mn, saturation took place

Card 1/2

RDW/JD /JD/GS EWT(m)/EMP(w)/ETC(f)/EWG(m)/T/EWP(t) IJP(c) L 39587-66 SOURCE CODE: UR/0000/65/000/000/0020/0026 ACC NR: AT6001329

AUTHOR: Abdullayev, G. B.; Tagiyev, K. K.; Talibi, M. A.

a/ BH 15 ORG: none

TITLE: Effect of sodium impurities on the optical properties of selenium

SOURCE: AN AzerbSSR. Institut fiziki. Selen, tellur i ikh primeneniye (Selenium, tellurium and their utilization). Baku, Izd-vo AN AzerbSSR, 1965, 20-26

TOPIC TAGS: selenium, ultra high purity metal, sodium, impurity conductivity, oxygen, optic transmission, radiation spectrum, crystallization, metal physics, absorption coefficient

ABSTRACT: The present work was undertaken owing to lacunae in the literature on the properties of high purity selenium and the effect of impurities on the dispersion of selenium. The experimental procedure was described in an earlier work. Formulas for the coefficients of absorption, refraction, transmission and reflection are given. The experiments were done on $\frac{SF-10}{2}$ and $\frac{SF-4}{2}$ spectrophotometers for samples with Na impurities and pure Se (99.9999%) at 300°K. Sample thickness (ranging from 1.4 to 2.5 μ) was carefully controlled since it was a primary variable in

Card 1/2

I	L 06196-67 EWT(m)/EWP(t)/ETI IJP(c) JD/JH SOURCE CODE: UR/0233/66/000/002/0101/0106 AUTHOR: Talibi, M. A.; Verdiyeva, T. M.; Krutenyuk, Ye. G.
	ORG: none TITLE: Effect of crystallization and surface condition of Se on forming of p-n Junctions of Se-CdSe and Se-CdS Junctions of Se-CdSe and Se-CdS SOURCE: AN AzerbSSR. Izvestiya. Seriya fiziko-tekhnicheukikh i matematicheukikh nauk, no. 2, 1966, 101-106 TOPIC TAGS: semiconductor device, photoelectric cell, semiconductor rectifier, selenium rectifier, PN JUNCTION, CADMINIM SELENIUM, SELENIUM, selenium rectifier, PN JUNCTION, CADMINIM SELENIUM, ABSTRACT: The article presents some results of an experimental investigation of the dependence of properties of selenium p-n junctions on the structure of the selenium dependence of properties of selenium p-n junctions on the structure of the selenium surface. Rectifying cells made of Se-CdSe, Se-CdSe photocells, and Se-layers surface. Rectifying cells made of Se-CdSe, Se-CdSe, Se-CdSe photocells, and Se-layers were investigated. A bismuth coated aluminum base with a selenium layer (containing were investigated. A bismuth coated aluminum base with a selenium layer conditions and then etched with nitric acid. Their surfaces were then under various conditions and then etched with nitric acid. Their surfaces were then under various conditions and then etched with nitric acid. Their surfaces were then under various conditions and then etched with nitric acid. Their surfaces were then under various conditions and then etched with nitric acid. Their surfaces were then under various conditions and then etched with nitric acid. Their surfaces were then under various conditions and then etched on rough bismuth-coated aluminum bases: crystallization of selenium layers deposited on rough bismuth-coated aluminum bases: crystallization of selenium layers deposited on rough bismuth-coated aluminum bases: crystallization of selenium layers deposited on rough bismuth-coated aluminum bases: a) spherulitic cyrstallization b) crystallization caused by growth of intra- and inter-
	Cara 1/2
-86	

ACC NR: AP7002840

SOURCE CODE: UR/0233/66/000/004/0091/0095

AUTHOR: Talibi, M. A.; Lunev, P. A.; Kadymov, G. G.

ORG: none

TITLE: Selenium avalanche diodes

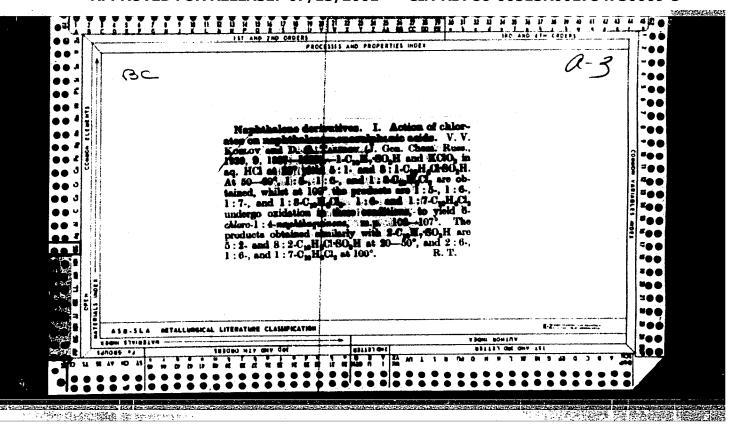
SOURCE: AN AzerbSSR. Izvestiya. Seriya fiziko-tekhnicheskikh i matematicheskikh

nauk, no. 4, 1966, 91-95

TOPIC TAGS: semiconductor diode, selenium rectifier, voltage regulator

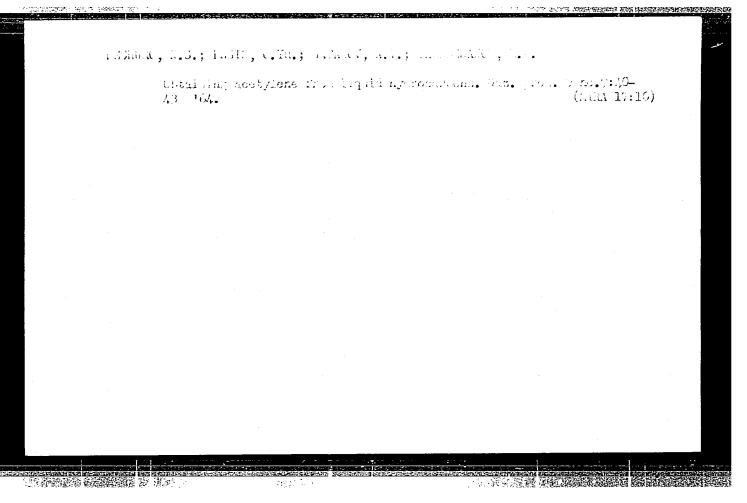
ABSTRACT: The voltage-regulating properties of selenium diodes were studied. The diode under study was connected in series with a ballast resistor (R,) and the input voltage, and in parallel with a load resistor (R_2) . The output voltage was measured across R2. When R2 = 10 kohm, the voltageregulating properties of the diode sharply deteriorated for values of R_i less than 1 kohm. The voltage-regulating properties were basically unchanged for values of R_2 between ~ 0.6 and 10 kohm if $R_1 = 10$ kohm. In addition to single diodes, the voltage-regulating properties of 10 series- and 10 parallel-connected diodes in the above circuit were studied. For values of $R_1 = R_2 = 10$ kohm, stabilization of the output voltage began for input voltages of 8 and 5 v for the series and parallel-connected diodes. The quality factor of selenium diodes is

UDC: none



BOBYLEV, I.P. (st.Aduy, Sverdlovskoy dorogi); ZYRYANOV, A.Ye. (st.Aduy, Sverdlovskoy dorogi); MELUZOV, V.G. (st.Aduy, Sverdlovskoy dorogi); SINTYURIN, F.T. (st.Aduy, Sverdlovskoy dorogi); TALIBULINA, R.G. (st.Aduy, Sverdlovskoy dorogi); FATKHALISLAMOV, G. (st.Aduy, Sverdlovskoy dorogi)

Inadmissible procedures. Put' put.khoz. 8 no.2:41 '64. (MIRA 17:3)



TALIC, Alija Dr.

Director, Vet. Sertice Council of Agric. and Forestry, Prov. of Bosmia and Heregovina Director of the Vet. Service, admin. of all vet. activities within the Province of Bosmia and Heregovina

MSA Booklet June 13, 1952

^tvijsestavi +

A. TALIC [Affiliation not given.]

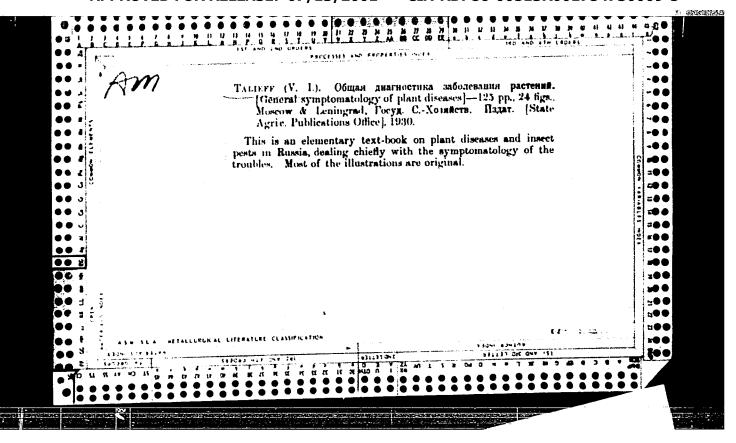
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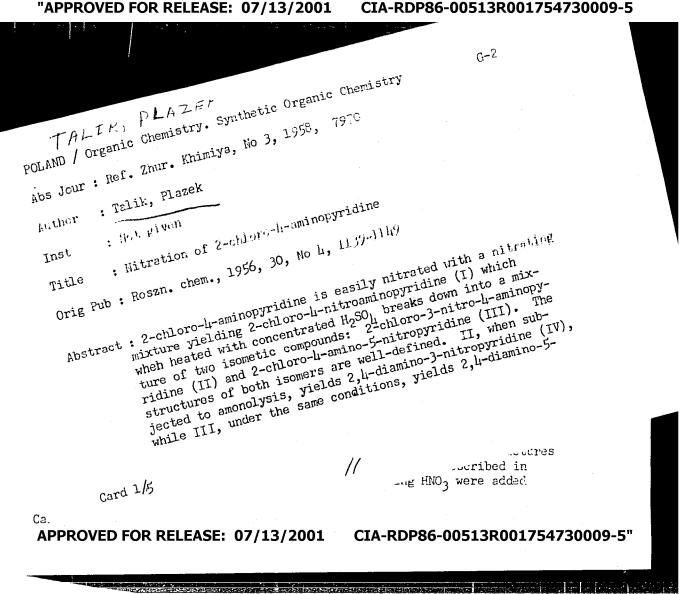
"Organization of the Veterinary Stations, Inspectorates and Funds in the People's Republic of Bosnia and Hercegovina."

Belgrade, Veterinarski Glasnik, Vol 17, No 5, 1963; pp 395-402.

Abstract: Relatively unstructured critical essay highlighting the reasons for lack of progress and inconsistencies in the performance of the veterinary services in this Yugoslav state: spasmodic and often obsolete legislation; paradoxical unemployment of young veterinarians due to selfish and narrow-minded attitudes and policies at the local level among veterinarians while there is need for at least 100 more veterinarians in the state; administrative and organizational absurdities. There are now 115 veterinary field stations and 25 extension offices employing between them 208 veterinarians, 50 technicians and 154 helpers. They could achieve much more if working efficiently; vague exhortations.

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POLAND / Organic Chemistry. Synthetic Organic Chemistry

G-2

Abs Jour: Ref. Zhur. Khimiya, No 3, 1958, 7970

Abstract: 30 min) and the resulting precipitate 0.2 gm of IX, m.p. 145°C (in water with charcoal), were extracted with KOH; the solution after separating the precipitate was treated with an excess of 50% KOH and X was extracted with ether, yield 0.7 gm, m.p. 161-183°C (in water). In a manner IX, M.p. 225-227°C (in benzene). 0.5 gm of IX in 50 ml of water and 0.5 ml of H₂SO₁ were cooled to 0°C and 0.5 gm of NaNO₂ in 5 ml of water were added, the mixture was cllowed to yield 83.3%, m.p. 220°C (in water).

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POLAND/Organic Chemistry. Synthetic Organic Chemistry.

G

Abs Jour: Ref Zhur-Khimiya, No 21, 1958, 70842.

Author : Talik, Plazhek.

Inst

Title

: Synthesis of Certain Derivatives of the Hydrazide

of Thiocyanacetic Acid.

Orig Pub: Rocz. Chem., 1957, 31, No 3, 1069-1070.

Abstract: For the purpose of preparing new antituberculosis agents, SCNCH; CONHN=CHR (I) were synthesized. From

the action of ClCH2COCl upon RCH=NNH2 in pyridine, RCH=NNHCOCH2Cl (II) was prepared, which with KCNS

in acetone forms I.

The following were obtained: II, R = C4H5, m.p. 164°C.; II, R = 3-NO₂C₆H₄, m.p. 209°C.; I, R = C₆H₆, m.p. 251°C.; I, R = 3-NO₂C₆H₄, m.p. 278°C.

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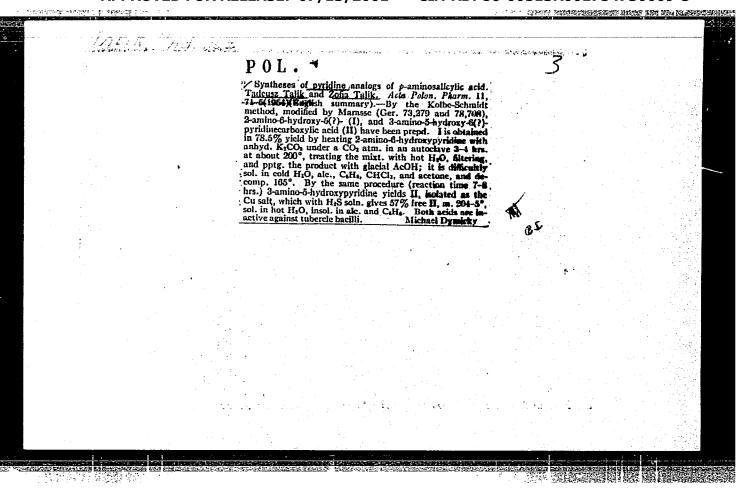
Card : 2/2

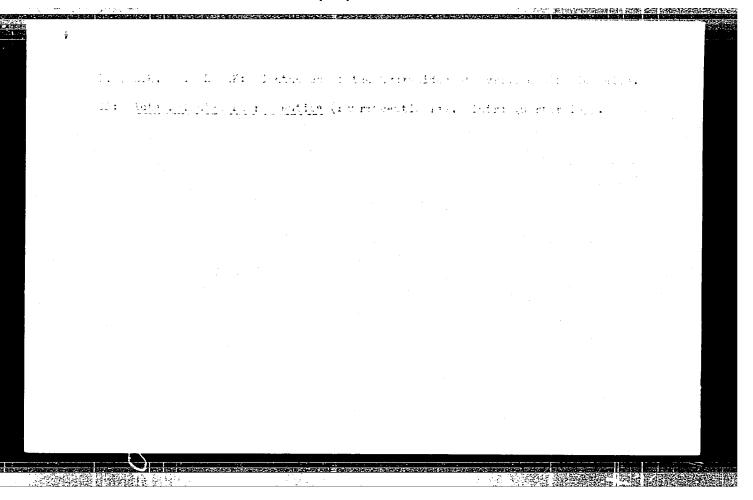
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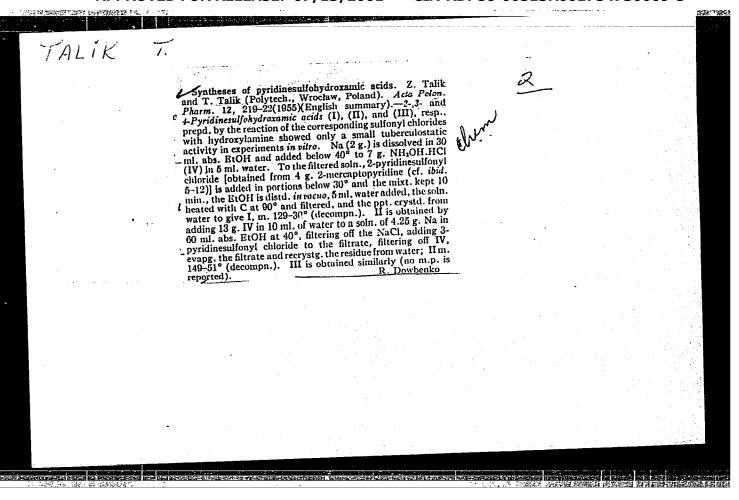
TALIK, T.: PLAZEK, E.

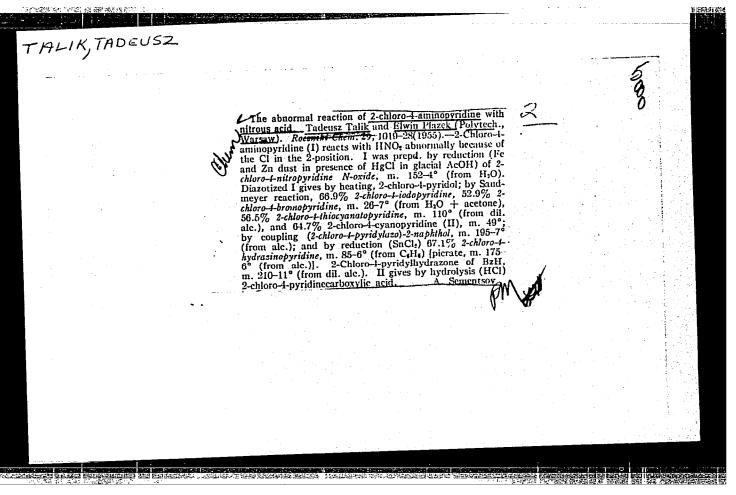
Synthesis of hydrazides of pyridine sulfonic acid. Acta Poloniae pharm. 12 no.3:179-184 '53.

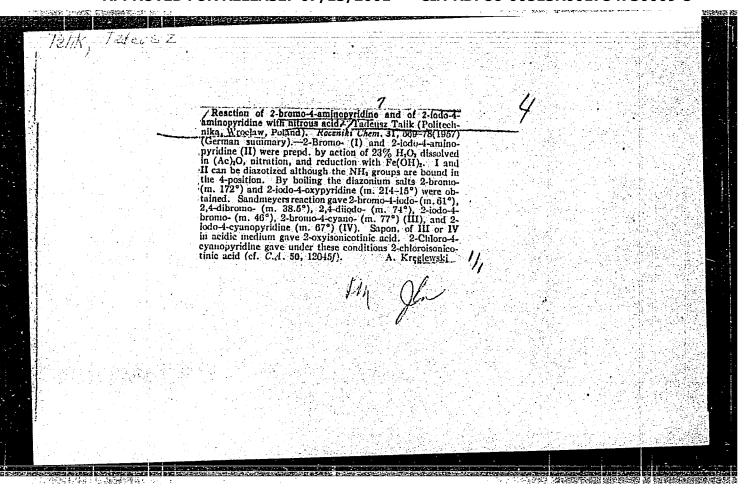
1. Katedra Chemii Organicznej Politechniki Wrocławskiej Kierownik: prof. dr. E. Plazek. (PYRIDINES, preparation of, pyridinesulfonic acid hydrazides)











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